Wireless IPS Release Notes for Release v2.6
Part Number 72E110137-01

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1 Introduction

Motorola's Wireless Intrusion Protection System (WIPS) Release 2.6 is a minor release that supports new features as well as new hardware platforms for increased scalability. The Wireless IPS server software version 2.6 is certified with AirDefense Enterprise Appliance Models: 1250, 3650, and 4250.

The licensing model has been updated with additional feature Modules capabilities for WEP Cloaking and Advanced Forensics. (Need to be purchased separately)

2 New Features

- **Alarms** – new additions and enhancements
    - Rogue Bridging alarm
    - Unauthorized Bridging alarm
    - Fuzzing alarm - Invalid Channel Advertisement
    - Fuzzing alarm - Invalid Management Frame
    - Missing AP alarm enhancements
    - Missing Station alarm
    - Device using invalid MAC Address alarm
- **Alarm Manager** enhancements
    - Ability to export to CSV file
    - Last Seen Time added to the Alarm Manager

    - Group by and filter set
- **Auto-classification Enhancements**:
    - Ability to schedule multiple rule sets
    - Ability to action on Out-of-Range devices
- **Backup & Restore** enhancements
    - More granular control of Backup, Restore and Synchronization options through the AirDefense GUI
    - Corresponding CLI commands were removed from WIPSadmin
- **Centralized Management Console (CMC**) – Manage settings of multiple appliances from one console
    - Summary View of multiple AirDefense server appliances
    - Push Alarm configuration, User Accounts, and Authorized Stations to multiple servers
    - Check Policy Configuration across multiple servers
- **Cisco WLC (Wireless LAN Controller) integration enhancements**:
    - ACL (Access Control List) blocking of client devices on WLC switch controller
    - AP-assisted Location Tracking can use AP RSSI feeds from WLC to assist in Location Tracking.
    - Authorize all known devices through Synchronization with Cisco Wireless LAN Controller
- **Copy MAC address** – ability to right-click and copy a MAC address from GUI
- **Device Manager** - Quick view of all devices by type within a branch of the tree, and ability to export to CSV
- **Forensic Analysis** – Updated Forensic Analysis interface.
- **Live View enhancements** – improvements for capture and analysis of 802.11 traffic
    - UI enhancements with fully customizable views and filters
    - New visualizations, additional graphs, and added metrics and data for expert analysis

        - Frame capture improvements, including full frame capture, reduced WAN bandwidth utilization, and server-side capture storage

- **Location Tracking** (triangulation) enhancements
        - Improvements to the location tracking algorithm
        - Confirmation added for deletion of Location Tracking map
- **Mail Relay configuration** – Configurable by Admin through AirDefense GUI
- **Microsoft Vista Support** for AirDefense Enterprise GUI application
- **Scalability enhancements** – Support larger numbers of sensors on AirDefense appliances
- **Sensor Upgrade** – Sensor Upgrade Management interface updated
- **Signal Strength Indicator** updates
- **Report Manager** – Redesigned Web Reporting GUI
- **Scope-based Forensic Analysis** – Forensic Analysis capability on multiple devices in a scope, including threat score, traffic, channel, and bandwidth analysis (must have Advanced Forensic license).
- **SSH Banner** – Allows user to configure a banner for SSH login
- **Serial Port enabled** – Ability to connect to AirDefense model 1150, 1250, or 3650 server appliance using the Serial Port.
- **Reporting Component enhancements**
        - Ability to run basic math operations, e.g. create % of Retry Frames
        - Allow grouping of call-outs to limit overlap in pie charts

3 New Add-on Module

- **Advanced Forensic Analysis** – Graphical data representation and interactive GUI allows the user to quickly zoom into problem areas; this is a separately licensed add-on module.
- Any time period (i.e. more than 24-hour period) and adjustable window with zoom capability
    - **Historical Location Tracking** of any wireless device in the data file on the system (only with Advanced Forensic Analysis module)

3 Hardware Platform

Motorola's release of WIPS 2.6 will support the following AirDefense hardware platforms. All previous hardware platforms can be upgraded from WIPS 2.5 to WIPS 2.6. To procure this hardware, please contact the Air Defense Sales Representatives.

PART NUMBER	DESCRIPTION
	AirDefense Appliance
SV-1250-P-M	**Model 1250 Appliance Hardware & 1st Year Support** - Small wireless environments that expect limited growth (1) Model 1250 Appliance (Part # SV-1250-P-1) (1) 12 Months of 5x12 Gold Support for Part # SV-1250-P-1 (Part # SV-1250-MG-1) *Note: only available to customers with WIPS server software license*
SV-3650-P-M	**Model 3650 Appliance Hardware & 1st Year Support** - Medium to large wireless environments that expect moderate growth (1) Model 3650 Appliance (Part # SV-3650-P-1) (1) 12 Months of 5x12 Gold Support for Part # SV-3650-P-1 (Part # SV-3650-MG-1) *Note: only available to customers with WIPS server software license*
SV-4250-P-M	**Model 4250 Appliance Hardware & 1st Year Support** - Very large multi-site deployments that expect significant growth (1) Model 4250 Appliance (Part # SV-4250-P-1) (1) 12 Months of 5x12 Gold Support for Part # SV-4250-P-1 (Part # SV-4250-MG-1) *Note: only available to customers with WIPS server software license*

4 Download Information

For existing customers who would like to upgrade, WIPS is an entitled Product and requires a Service contract to be in place. Please contact Motorola Sales person if you currently do not have a support contract and would like to receive access to any

software updates of this product.

5 Server & Sensor Versions

Software	Version
Server Software	2.6
Sensor Firmware	4.5.0.10

6 New Licensing Requirements

In WIPS 2.6, we have redesigned the licensing model to enable a more user friendly experience and allow the licensing of additional features such as WEP cloaking and Advanced Forensics on the WIPS server. Please ensure that you review the new licensing instructions in the WIPS 2.6 Server Installation guide before installing a new WIPS 2.6 server or adding more licensing to an existing WIPS 2.6 Server that had been upgraded from WIPS 2.5. The licensing has changed from the WIPS 2.5 model.

7 Installation Requirements

The Wireless IPS server software version 2.6 is certified with AirDefense Enterprise Appliance Models: 1250, 3650, and 4250.
The Wireless IPS GUI client requires a minimum of 512 MB. It is recommended to have 1 GB of RAM for the client workstation.

8 Upgrade Requirements

Upgrade to WIPS 2.6 requires that the current server is running WIPS 2.5.
NOTE: If you are upgrading WIPS 2.5 on a HP or Dell server install, please follow the Upgrade Installation instructions in the WIPS 2.6 Server installation guide.

Upgrading IBM 3550 to WIPS 2.6

If you are upgrading WIPS 2.5 on an IBM 3550, there is a possibility that necessary drivers for some disk configurations are not currently loaded on the system. This can cause the upgrade to fail if data and configurations are not backed up before starting they can be irretrievably lost. Motorola strongly recommends the following procedure

1. Log into the Motorola Wireless IPS Serve as **smxmgr.**

2. Enter **d** to display database menu options.
3. Entering **BUDBCFG** to backup the database configuration. This will create a file with the current configuration data in **/usr/local/smx/backups**.
4. From a separate machine, use **scp** to copy the backup file. You may have to allow the user machine IP address using theHALLOW option. For information on using this option, see "Set the List of Allowed Hosts (HALLOW)"

   Set the List of Allowed Hosts (HALLOW)

   "Allowed hosts" (HALLOW) is a list of hosts allowed to connect to the Motorola Wireless IPS Server using a SSH connection.

   To set the list of allowed hosts:

   1. Enter **hallow** at the SYMadmin prompt. The list of allowed host displays.
   2. To add an entry to the list of allowed hosts:
      i. Enter **a**.
      ii. Enter the system and subnet you want to add.
   3. To delete an entry from the list of allowed hosts:
      i. Enter **d**.
      ii. Enter the number corresponding to the entry you want to delete.
   4. Enter **q** after you complete adding and deleting entries in the list of allowed hosts. The system prompts you to save your changes.
   5. Enter **yes** or **no**.
   6. Enter **q** to return to the WIPSadmin main screen.
5. Datastore Files need to be backed up also.
   - The files are located at /usr/local/smx/adstatslog/
   - scp these files to a separate machine
6. Attempt the system upgrade following the Upgrade Installation instructions in the WIPS 2.6 Server installation guide.
7. If an error occurs repeat the installation for a new system. Please follow the procedure below:
   1. With this most recent release of the Wireless IPS software, the mechanism required to obtain a valid license has changed. If you need a valid license before proceeding with the Wireless IPS installation, complete the instructions in this section. Once you have obtained valid

license, proceed to “Adding the License” on page 11 of the WIPS Server Installation Guide.

2. To obtain a valid Wireless IPS software license: Go to the MySymbolOrder Web site: http://mysymbolorder.symbol.com/
3. Login using a user name of “customer” and a password of “upgrade1.” If you have an existing MySymbolOrder account, you can use your existing user name and password, then click the Product Licensing tab.
4. Enter your contact information. All fields are required except comments.
5. From the Product Category, select the WIP option from the drop-down menu. Click the Proceed button.
6. Select Register Product/Apply Upgrade. Click Next.
7. Enter the serial number displayed on the back of your Motorola Wireless IPS Product CD case. Additionally, enter the MAC address of the device you are installing Wireless IPS on. ***NOTE*** At this point, your license count is 0 with a base license. Once licenses are provided, the license count isthe total number of licenses (regardless of type). Thus, if you have 100 Server licenses, 100 WEP Cloaking licenses and 100 Advanced Forensics licenses, the total license count is 300.
8. .Exit the WIPS application and launch again to properly apply the license.
9. Continue to add additional licenses as needed.
10. When completed, the configuration key should be generated. Once generated, cut and-paste the key from the screen. You also have the option of waiting for the key from a Motorola generated email.
11. Once the key is entered, complete the installation and legally use the Motorola Wireless IPS application.

8. You will need the following when talking to the Support team:
   - Server Serial number on the back of the Server software DVD case
   - MAC address of the system that you will be upgrading.
   - ENC file – Please do the following steps to get your ENC file:
     1. Establish a GUI connection to the WIPS Server
     2. Customer will log in using the User ID and Password that they created by going in to WEBU from the Co nsole connection.

        WIPSadmin -> Manage -> Manage web users

3. Once logged in, select Tools Configuration
4. Select Appliance Manager
5. Select Licenses
6. Select Get Server Keys…
   (This will generate a <filename>.enc file. This file wi ll be needed by Tier II Support Center when a Suppo rt Call is placed – 1-800-653-5350)
7. Customer should copy this file to a PC that has E-Ma il access. When requested, send this file to the Suppo rt Associate.

9. Once you have the new license, You will need to Ue the IRESTORE option from the WIPSADMIN to restore database and configuration

9 Server & Sensor Versions

Motorola's Wireless Intrusion Protection System (WIPS) Release 2.6 integration features are supported with the following platform versions:

RFS7000: v1.1.0.0-038R

WS5100: v1.1.0.0-045R

WS2000: 2.2.3.1-002R

Motorola's Wireless Intrusion Protection System Sensor Firmware runs on:

AP-300 Dual Radio Part numbers:

WSAP-5100-100-WWR

WSAP-5110-100-WWR

10Known Issues

Issue
Redundant Server Licenses are not support thru MySymbolOrder.com. IF you are installing a WIPS 2.6 Redundant Server, Please contact Motorola Support.
IBM 3550 upgrading does not always install correctly and may require the user to do a default installation on WIPS 2.6 and re install Licensing certificates. See Procedure above.
Advanced Forensics – The historical Location Tracking tab in Advanced Forensic Analysis window may take up to 2-6 minutes to populate when multiple Location

Tracking maps are loaded.
Live View – When multiple Live View sessions are opened at the same time on the same Client Workstation, CPU performance may be affected; it is recommended that only one session be opened on a workstation.
Reporting Scalability – On very heavily loaded systems (several hundreds of sensors & 10,000s of active devices) with very large amounts of data, multi-device reports and/or multi-day reports may not complete and time-out in 3 hours
Tree Refresh - *Device* changes may take up to 2 minutes. Manual GUI refresh still instantly refreshes *state* changes. • Clicking the Refresh button may not instantly display new devices in the tree. • APs may not be instantly removed from the tree.